

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	"20020182441"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 11:02
S2	1	2000wo-us32511	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 16:58
S3	2	2001wo-JP10487	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 15:43
S4	3	"20030068526"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 16:57
S5	0	2000WO-US70655	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 16:58
S6	0	1999WO-US70655	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 16:58
S7	0	2000wo-us70655	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 16:59
S8	1	2000wo-us12946	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 17:37
S9	2	"20030054198"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 18:18

S10	1026	trifluoromethylpyridine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 18:18
S11	30	fluorophenyl adj2 trifluoromethylpyridine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/25 18:19
S12	51	trifluoromethyl adj2 phosphine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:11
S13	27	(bis di) adj trifluoromethyl adj2 phosphine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:13
S14	1	(bis di) adj trifluoromethylphenyl adj2 phosphine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:13
S15	25	(bis di) adj trifluoromethyl adj phenyl adj2 phosphine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:16
S16	43158	fluoroalkyl perfluoroalkyl trifluoromethyl and (luminescent electroluminescent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:20
S17	1711	(fluoroalkyl perfluoroalkyl trifluoromethyl) and (luminescent electroluminescent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:20
S18	37	(fluoroalkyl perfluoroalkyl trifluoromethyl) near12 (preferred solubility improv\$5 better shorter emission) and (luminescent electroluminescent)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 09:21
S19	2	"20020048689"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/26 11:02

FILE 'REGISTRY' ENTERED AT 12:11:46 ON 02 JUN 2005

L1 1 S 512182-79-5
 L2 0 S 512182-79-5/CRN
 L3 4 S 512182-89-7/RN OR 512182-91-1/RN OR
 512182-93-3/RN OR 512182-95-5/RN
 L4 2 S 435294-37-4/RN OR 435294-74-9/RN
 L5 1 S 435294-05-6/RN

FILE 'HCAPLUS' ENTERED AT 12:16:38 ON 02 JUN 2005

L6 2 S L5

FILE 'REGISTRY' ENTERED AT 12:26:04 ON 02 JUN 2005

L7 15 S 86178.2.1/RID
 L8 23 S 91989.1.1/RID
 L9 11 S (L7 OR L8) AND F/ELS

FILE 'HCAPLUS' ENTERED AT 12:27:33 ON 02 JUN 2005

L10 4 S L9

FILE 'STNGUIDE' ENTERED AT 12:28:46 ON 02 JUN 2005

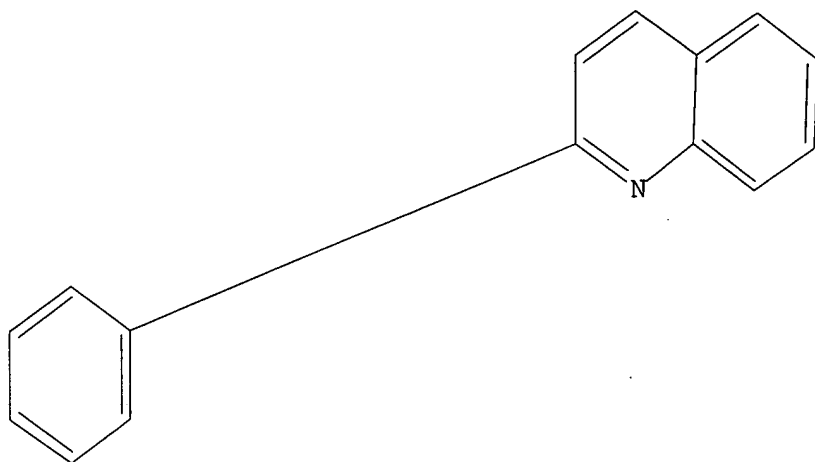
FILE 'REGISTRY' ENTERED AT 12:48:22 ON 02 JUN 2005

L11 STRUCTURE UPLOADED
 L12 50 SEA SSS SAM L11
 L13 STRUCTURE UPLOADED
 L14 50 SEA SSS SAM L13
 L15 STRUCTURE UPLOADED
 L16 50 SEA SSS SAM L15
 L17 377580 S (591.50.52 OR 591.79.52)/RID
 L18 218424 S L17 AND 46.150.18/RID
 L19 33403 S L18 AND F/ELS
 L20 10 S L19 AND IRIDIUM
 L21 10 S L19 AND IR/ELS
 L22 10 S (L20 OR L21)
 L23 928 S PHENYLQUINOLIN?
 L24 103695 S PHENYL(3A) (ISOQUINOLIN? OR QUINOLIN?)
 L25 188 S (L23 OR L24) AND IR/ELS
 L26 188 S (L23 OR L24) AND IRIDIUM
 L27 188 S (L25 OR L26)
 L28 80 S L27 AND F/ELS
 L29 32 S L28 AND O/ELS
 L30 9 S L28 AND (CL OR BR)/ELS
 L31 1 S (L28 OR L29 OR L30) AND PHENYL QUINOLIN?
 L32 1 S (L28 OR L29 OR L30) AND PHENYLQUINOLIN?
 L33 1 S (L31 OR L32)
 L34 59 S (L28 OR L29 OR L30) AND 1/NC
 L35 59 S (L28 OR L29 OR L30) NOT (2/NC OR 3/NC OR
 4/NC OR 5/NC OR 6/NC OR 7/NC OR 8/NC OR 9/NC OR 10/NC)

FILE 'HCAPLUS' ENTERED AT 13:33:16 ON 02 JUN 2005

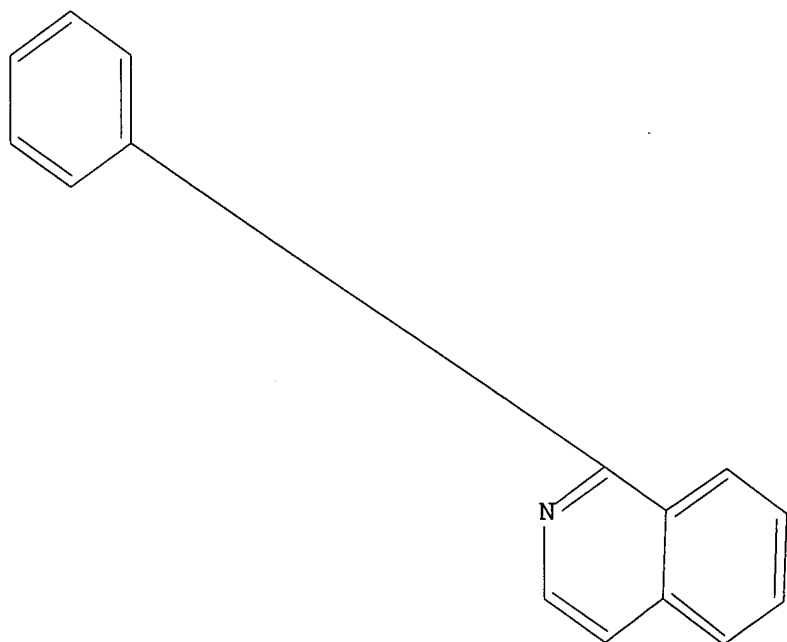
L36 9 S L35

ENTER STRUCTURE FORMAT (SIM), NOS:SIM
L13 STR



=> d sim L15

L15 STR



CAS/STN FILE 'HCAPLUS' ENTERED AT 14:58:29 ON 01 JUN 2005

L1 1 S US2004094769/PN
 L2 SEL PLU=ON L1 1- RN : 42 TERMS

FILE 'REGISTRY' ENTERED AT 14:59:18 ON 01 JUN 2005

L3 1 S QUINOLINE/CN
 L4 42 S L2
 L5 0 S L4 AND 591.79.52/RID
 L6 42 S L2
 L7 35 S L6 AND F/ELS
 L8 42 S L2
 L9 42 S L8 AND N/ELS
 L10 42 S L2
 L11 12 S L10 AND O/ELS
 L12 42 S L2
 L13 13 S L12 AND IR/ELS
 L14 42 S L2
 L15 1 S L14 AND QUINOLIN?
 L16 35 S L7 AND L8 AND L9
 L17 9 S L11 AND L16
 L18 19 S L11 OR L13 OR L15 OR L17

FILE 'HCAPLUS' ENTERED AT 15:02:17 ON 01 JUN 2005

L19 1 S L1 AND L18
 L20 16 S L13
 L21 15 S L20 NOT L19

FILE 'REGISTRY' ENTERED AT 15:05:18 ON 01 JUN 2005

L22 1 S 2-AZANAPHTHALENE/CN
 L23 41085 S 591.50.52/RID
 L24 336022 S 591.79.52/RID
 L25 9 S (L23 OR L24) AND F/ELS AND O/ELS AND IR/ELS

FILE 'HCAPLUS' ENTERED AT 15:10:08 ON 01 JUN 2005

L26 6 S L25 NOT L19
 L27 SEL PLU=ON L26 1- RN : 210 TERMS

FILE 'REGISTRY' ENTERED AT 15:10:44 ON 01 JUN 2005

L28 210 S L27
 L29 137 S L28 AND IR/ELS
 L30 60 S L29 AND N/ELS AND F/ELS

FILE 'HCAPLUS' ENTERED AT 15:11:28 ON 01 JUN 2005

L31 6 S L26 AND L30

FILE 'STNGUIDE' ENTERED AT 15:11:48 ON 01 JUN 2005

FILE 'REGISTRY' ENTERED AT 15:12:54 ON 01 JUN 2005

L32 2300 S IR/ELS AND O/ELS AND N/ELS AND F/ELS
 L33 9 S (L23 OR L24) AND L32
 L34 0 S AZANAPHTH? AND L32
 L35 1634 S PHENYL AND L32
 L36 99 S QUINOLIN? AND L32
 L37 80 S L35 AND L36
 L38 87 S (L33 OR L37) AND L32

FILE 'HCAPLUS' ENTERED AT 15:15:57 ON 01 JUN 2005

L39 25 S L38 NOT (L20 OR L31)
 L40 4996 S BIDENT? AND LIGAND AND (IR OR IRIDIUM)
 L41 88 S L40 AND (LED OR OLED OR LIGHT(2A)EMI##### OR CHARG###(3A)TRANSPORT#####)
 L42 3 S L40 AND (SEMICOND##### OR CONDUCT##### OR ELECTRODE)(3A)(?LAYER? OR FILM
 OR ?COAT?)
 L43 47 S L39 OR L20 OR L31
 L44 3 S L42 NOT L43
 L45 1 S L44 AND ?IRIDIU?
 L46 SEL PLU=ON L45 1- RN : 40 TERMS

FILE 'REGISTRY' ENTERED AT 15:22:17 ON 01 JUN 2005

L47 40 S L46
L48 9 S L47 AND IR/ELS

FILE 'HCAPLUS' ENTERED AT 15:22:32 ON 01 JUN 2005

L49 1 S L45 AND L48
L50 13 S L43 AND (?LAYER? OR FILM OR ?COAT?)

FILE 'STNGUIDE' ENTERED AT 15:24:28 ON 01 JUN 2005

FILE 'REGISTRY' ENTERED AT 15:26:11 ON 01 JUN 2005

L51 12109 S ((L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18) OR (L23 OR L24) OR (L28 OR L29 OR L30) OR (L32 OR L33 OR L34 OR L35
OR L36 OR L37 OR L38) OR (L47 OR L48)) AND DIOX#####
L52 15 S L51 AND IR/ELS AND F/ELS AND N/ELS

FILE 'HCAPLUS' ENTERED AT 15:27:01 ON 01 JUN 2005

L53 10 S L52

FILE 'REGISTRY' ENTERED AT 15:29:59 ON 01 JUN 2005

L54 149375 S ((L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR
L16 OR L17 OR L18) OR (L23 OR L24) OR (L28 OR L29 OR L30) OR (L32 OR L33 OR L34 OR L35
OR L36 OR L37 OR L38) OR (L47 OR L48)) AND (OXI##### OR OXY#####)
L55 17885 S L54 AND (L23 OR L24) AND F/ELS

FILE 'HCAPLUS' ENTERED AT 15:30:45 ON 01 JUN 2005

L56 72 S L55(L) (LIGHT OR OLED OR CHARGE OR LED OR OPTIC#### OR ?LAYER? OR FILM OR
?COAT?)
L57 72 S L56 NOT (L53 OR L50 OR L49 OR L44 OR L39 OR L31 OR L21 OR L19)
L58 0 S L57 AND IRIIDIUM
L59 0 S L57 AND BIDENT?
L60 1 S L57 AND LIGAND?
L61 30519 S (METAL##### OR COMPLEX##### OR ORGANOMET? OR METALLOORGAN? OR METALORG? OR
MOVPE OR METALLORG?) (4A) (IR)
L62 0 S L57 AND L61
L63 3 S L57 AND (METAL##### OR COMPLEX##### OR ORGANOMET? OR METALLOORGAN? OR
METALORG? OR MOVPE OR METALLORG?) (7A) (?LAYER? OR FILM OR ?COAT? OR ?MEMBRAN?)

FILE 'REGISTRY' ENTERED AT 15:37:57 ON 01 JUN 2005

L64 3328 S IRIIDIUM(9A) (OXI##### OR DIOX##### OR OXY#####)
L65 190 S L64 AND N/ELS AND F/ELS AND C/ELS

FILE 'STNGUIDE' ENTERED AT 15:39:00 ON 01 JUN 2005

FILE 'HCAPLUS' ENTERED AT 15:39:14 ON 01 JUN 2005

L66 4 S L60 OR L63
L67 64 S L66 OR L53 OR L50 OR L49 OR L44 OR L39 OR L31 OR L21 OR L19
L68 68 S L57 NOT L67
L69 0 S L68 AND (METAL##### OR COMPLEX##### OR ORGANOMET? OR METALLOORGAN? OR
METALORG? OR MOVPE OR METALLORG?) (7A) (?LAYER? OR FILM OR ?COAT? OR ?MEMBRAN?)
L70 0 S L68 AND OLED
L71 4 S L68 AND LED
L72 3 S L68 AND LIGHT(4A) (EMI##### OR DEVICE)
L73 0 S L68 AND L65
L74 0 S L68 AND L64
L75 5 S (L71 OR L72)

L36 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:31593 HCAPLUS

DN 136:93307

TI Electroluminescent iridium compounds with fluorinated phenylpyridines, phenylpyrimidines, and phenylquinolines and devices made with such compounds

IN Petrov, Viacheslav A.; Wang, Ying; Grushin, Vladimir

PA E. I. Du Pont de Nemours & Co., USA

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002002714	A2	20020110	WO 2001-US20539	20010627
	WO 2002002714	A3	20021024		
	CA 2411624	AA	20020110	CA 2001-2411624	20010627
	AU 2001071550	A5	20020114	AU 2001-71550	20010627
	EP 1295514	A2	20030326	EP 2001-950576	20010627
	JP 2004503059	T2	20040129	JP 2002-507959	20010627
	EP 1424382	A2	20040602	EP 2004-4541	20010627
	EP 1431288	A2	20040623	EP 2004-4542	20010627
	EP 1431289	A2	20040623	EP 2004-4543	20010627
	TW 593623	B	20040621	TW 2001-90115959	20010629
	CA 2455844	AA	20030731	CA 2001-2455844	20011226
	WO 2003063555	A1	20030731	WO 2001-US49522	20011226
	EP 1466506	A1	20041013	EP 2001-991428	20011226
	US 2004075096	A1	20040422	US 2003-720967	20031124
	US 2004116696	A1	20040617	US 2003-720954	20031124
	US 2005095457	A1	20050505	US 2004-983119	20041105
PRAI	US 2000-215362P	P	20000630		
	US 2000-224273P	P	20000810		
	US 2001-879014	B1	20010612		
	EP 2001-950576	A3	20010627		
	WO 2001-US20539	W	20010627		
	WO 2001-US49522	W	20011226		
	US 2003-366295	A3	20030213		

OS MARPAT 136:93307

AB Org. electroluminescent devices are described which employ an emitting layer comprising .gtoreq.20 wt. % pf .gtoreq.1 compd. described by the general formula IrLaLbLcxL'yL''z ($x = 0$ or 1 , $y = 0, 1$, or 2 , and $z = 0$ or 1 , with the proviso that $x = 0$ or $y + z = 0$ and when $y = 2$ then $z = 0$; L' = a bidentate ligand or a monodentate ligand, and is not a phenylpyridine, phenylpyrimidine, or phenylquinoline with the proviso that: when L' is a monodentate ligand, $y + z = 2$, and when L' is a bidentate ligand, $z = 0$; L'' = a monodentate ligand, and is not a phenylpyridine, and phenylpyrimidine, or phenylquinoline; and L_a , L_b , and L_c the same or different compds. are described by the general formula I; adjacent pairs of R_1 -4 and R_5 -8 can be joined to form a five- or six-membered ring, at least one of R_1 -8 is selected from F , CnF_{2n+1} , OCnF_{2n+1} , and OCF_2X ; $n = 1$ -6; and $X = H$, Cl , or Br , and $A = C$ or N , provided that when $A = N$, there is no R_1). The electroluminescent compds. as well as selected substituted 2-phenylpyridines, phenylpyrimidines, and phenylquinolines that may be used to make the compds. are also described.

IT 387859-64-5P

(electroluminescent devices based on iridium compds. with fluorinated phenylpyridines and phenylpyrimidines and phenylquinolines and the compds. and their precursors)

RN 387859-64-5 HCAPLUS

CN Iridium, bis[2-(2-quinolinyl-.kappa.N)-4-(trifluoromethyl)phenyl-.kappa.C](trifluoroacetato-.kappa.O,.kappa.O')-(9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L36 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:428917 HCAPLUS

DN 137:26190

TI Electroluminescence element and electroluminescent display device
containing the sameIN Kamatani, Jun; Okada, Shinjiro; Tsuboyama, Akira; Takiguchi, Takao; Miura,
Seishi; Noguchi, Koji; Moriyama, Takashi; Igawa, Satoshi; Furugori, Manabu

PA Canon Kabushiki Kaisha, Japan

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044189	A1	20020606	WO 2001-JP10487	20011130
	AU 2002022566	A5	20020611	AU 2002-22566	20011130
	EP 1348711	A1	20031001	EP 2001-998553	20011130
	US 2003068526	A1	20030410	US 2002-73012	20020212
PRAI	JP 2000-364650	A	20001130		
	JP 2001-64205	A	20010308		
	JP 2001-128928	A	20010426		
	WO 2001-JP10487	W	20011130		

OS MARPAT 137:26190

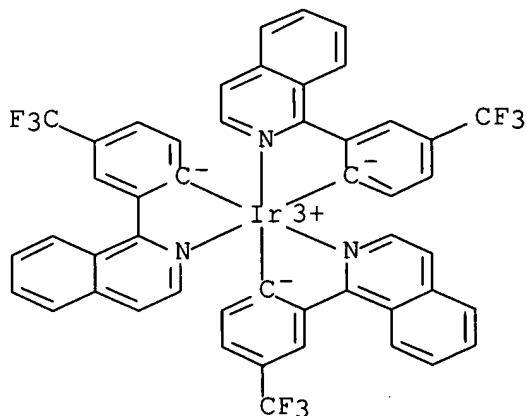
AB The invention relates to a luminescent element characterized by having a layer contg. a metal coordination compd. which has a partial structure MLm represented by the following general formula I (A, B = isoquinolyl group residue; M = metal) and which as a whole is preferably represented by the following formula MLmL'n (M = IR, Pt, Rh, Pd; m = 1, 2, 3; n = 0, 1, 2; MLm = compd. I; ML'n = compd. II-IV; A', B', B" = ring group residue; E, G = C1-20 alkyl; J = H, C1-20 alkyl). The luminescence element shows the high luminescent efficiency and the good stability.

IT 435294-01-2P 435294-05-6P 435294-06-7P

(electroluminescence element and electroluminescent display device
contg. same)

RN 435294-01-2 HCAPLUS

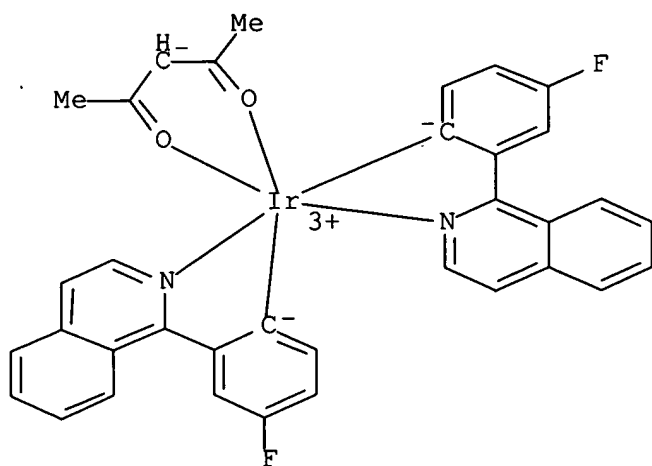
CN Iridium, tris[2-(1-isoquinolinyl-.kappa.N)-4-(trifluoromethyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



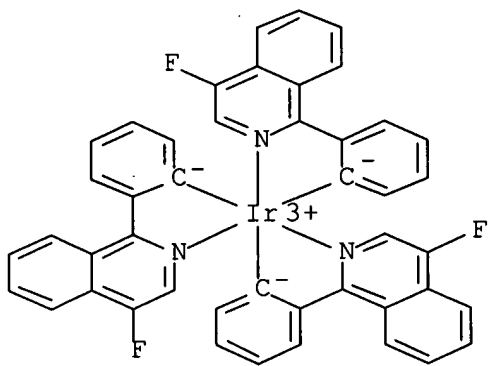
RN 435294-05-6 HCAPLUS

CN Iridium, bis[4-fluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C] (2,4-pentanedionato-.kappa.O,.kappa.O')- (9CI) (CA INDEX NAME)

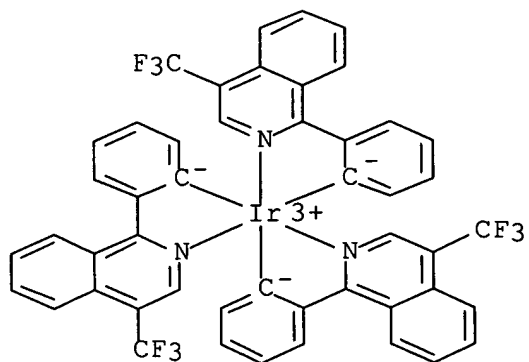
Sheet
1
of
20



RN 435294-06-7 HCAPLUS
 CN Iridium, tris[2-(4-fluoro-1-isoquinolinylnyl-κN)phenyl-κC]- (9CI)
 (CA INDEX NAME)

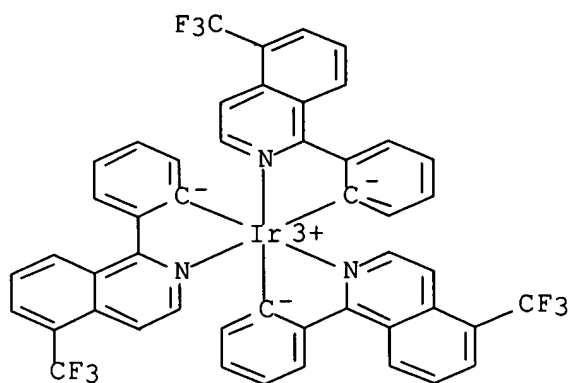


RN 435294-07-8 HCAPLUS
 CN Iridium, tris[2-[4-(trifluoromethyl)-1-isoquinolinylnyl-κN]phenyl-κC]- (9CI) (CA INDEX NAME)



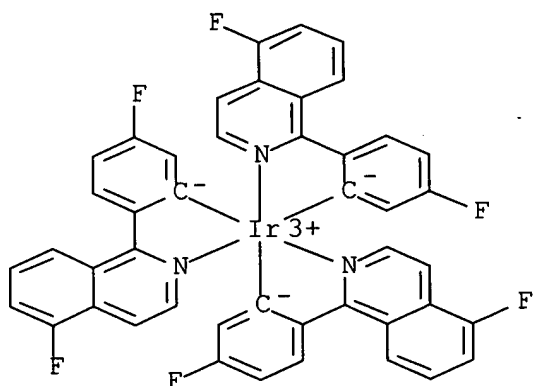
RN 435294-08-9 HCAPLUS
 CN Iridium, tris[2-[5-(trifluoromethyl)-1-isoquinolinylnyl-κN]phenyl-κC]-

.kappa.C]- (9CI) (CA INDEX NAME)



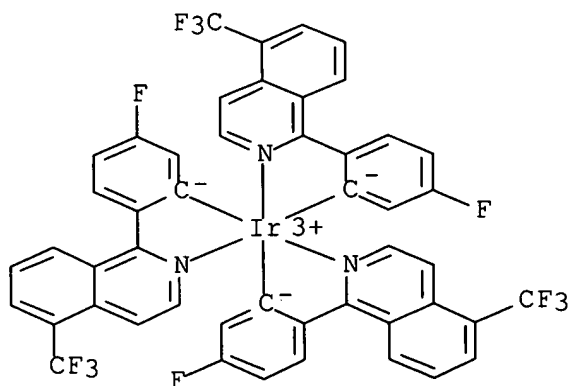
RN 435294-16-9 HCAPLUS

CN Iridium, tris[5-fluoro-2-(5-fluoro-1-isoquinolinyl)-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

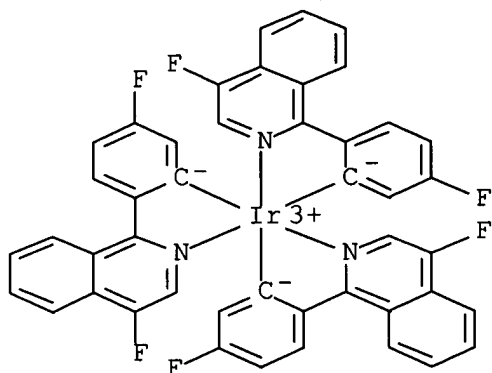


RN 435294-17-0 HCAPLUS

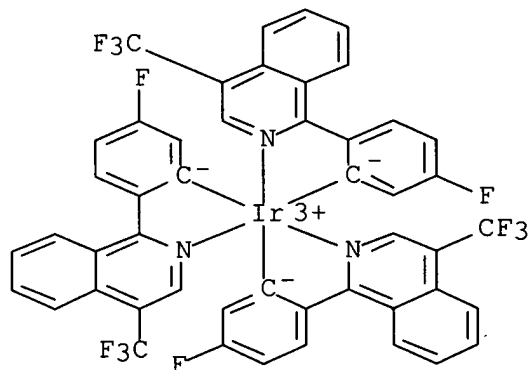
CN Iridium, tris[5-fluoro-2-[5-(trifluoromethyl)-1-isoquinolinyl]-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



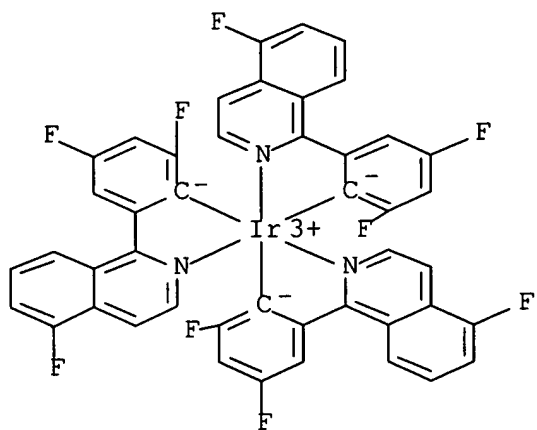
RN 435294-18-1 HCAPLUS
 CN Iridium, tris[5-fluoro-2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



RN 435294-19-2 HCAPLUS
 CN Iridium, tris[5-fluoro-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

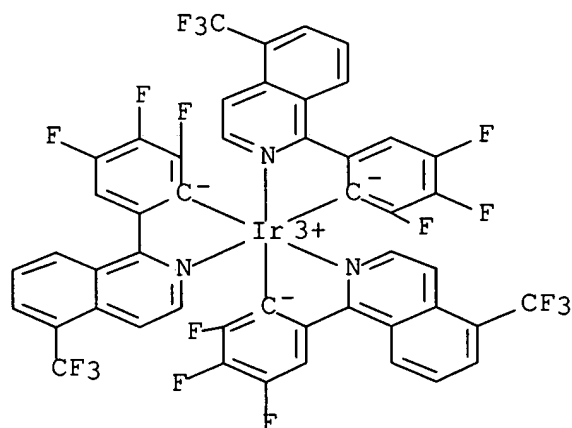


RN 435294-20-5 HCAPLUS
 CN Iridium, tris[2,4-difluoro-6-(5-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



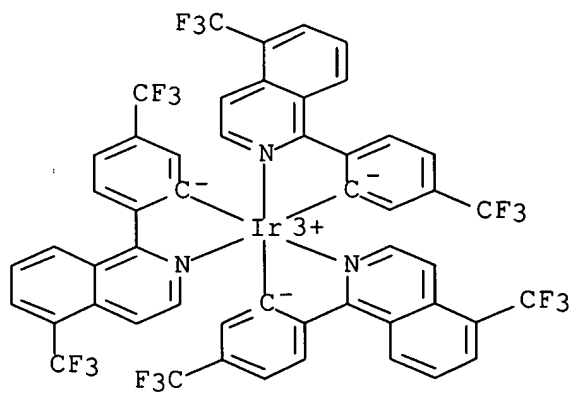
RN 435294-21-6 HCAPLUS

CN Iridium, tris[2,3,4-trifluoro-6-[5-(trifluoromethyl)-1-isoquinolinylnyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

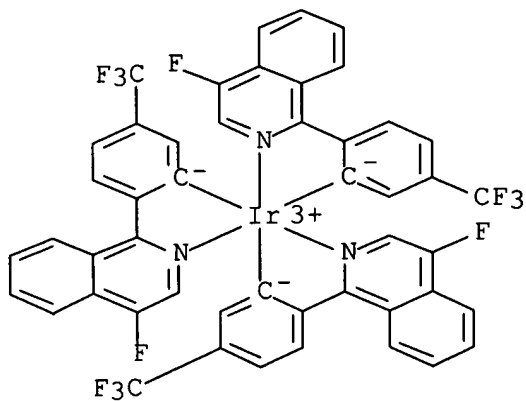


RN 435294-22-7 HCAPLUS

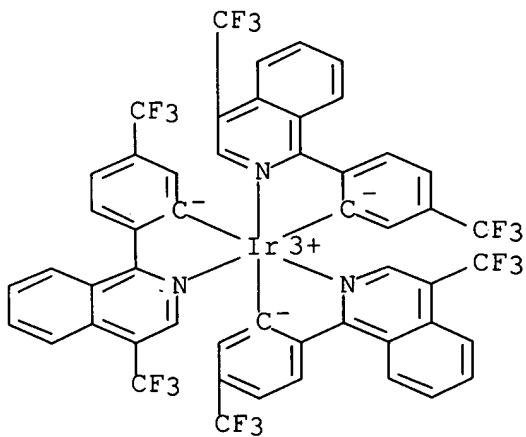
CN Iridium, tris[5-(trifluoromethyl)-2-[5-(trifluoromethyl)-1-isoquinolinylnyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



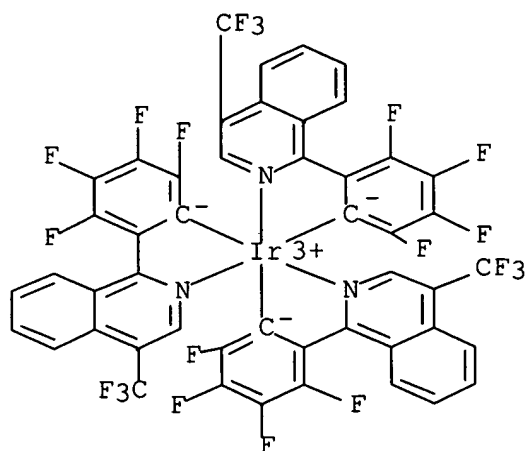
RN 435294-23-8 HCAPLUS
 CN Iridium, tris[2-(4-fluoro-1-isoquinolinyl-.kappa.N)-5-(trifluoromethyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



RN 435294-24-9 HCAPLUS
 CN Iridium, tris[5-(trifluoromethyl)-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

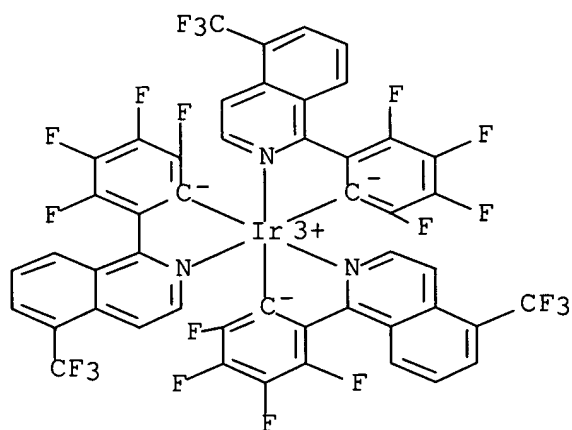


RN 435294-25-0 HCAPLUS
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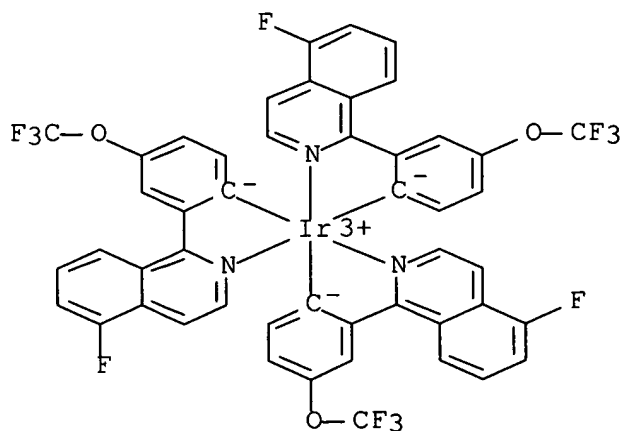
RN 435294-27-2 HCAPLUS

CN Iridium, tris[2,3,4,5-tetrafluoro-6-[5-(trifluoromethyl)-1-isoquinolinyl]-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



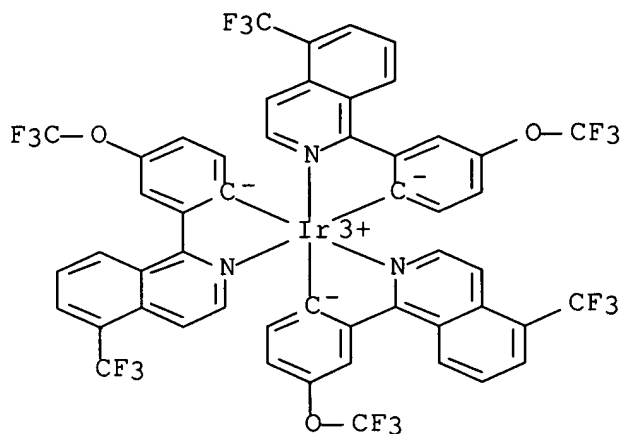
RN 435294-41-0 HCAPLUS

CN Iridium, tris[2-(5-fluoro-1-isoquinolinyl)-.kappa.N)-4-(trifluoromethoxy)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



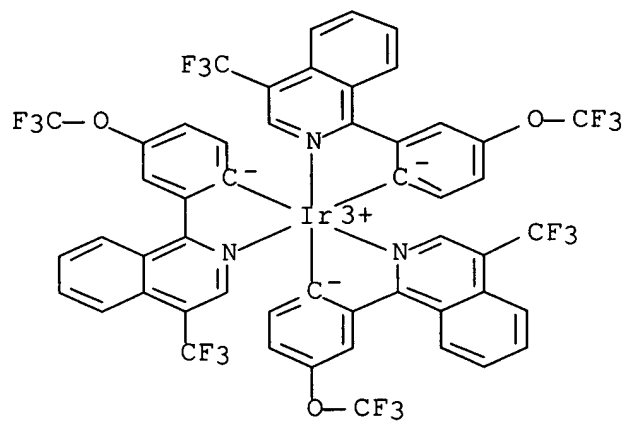
RN 435294-42-1 HCAPLUS

CN Iridium, tris[4-(trifluoromethoxy)-2-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



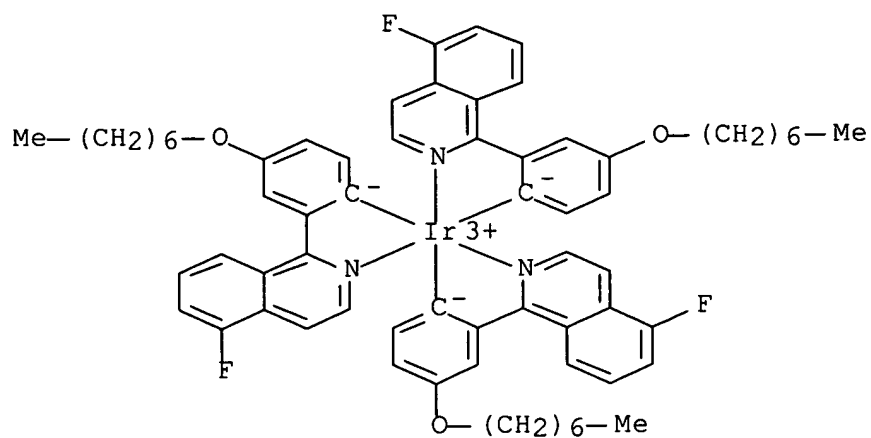
RN 435294-43-2 HCAPLUS

CN Iridium, tris[4-(trifluoromethoxy)-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



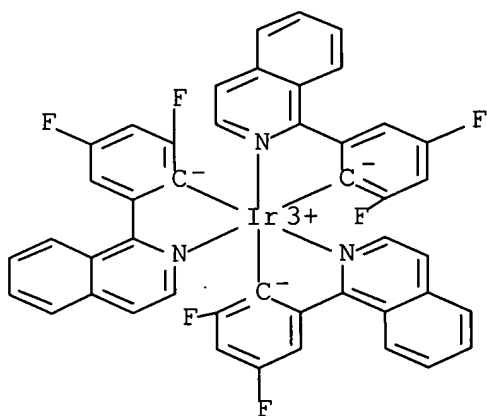
RN 435294-44-3 HCAPLUS

CN Iridium, tris[2-(5-fluoro-1-isoquinolinyl-.kappa.N)-4-(heptyloxy)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



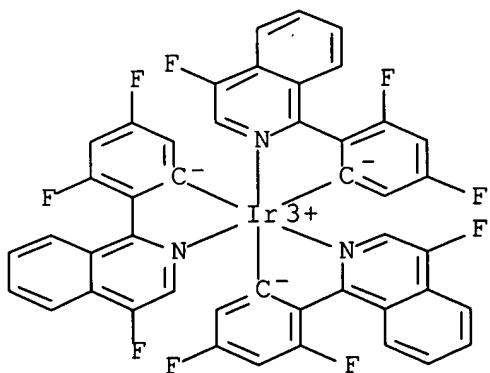
RN 435294-47-6 HCAPLUS

CN Iridium, tris[2,4-difluoro-6-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]-
(9CI) (CA INDEX NAME)

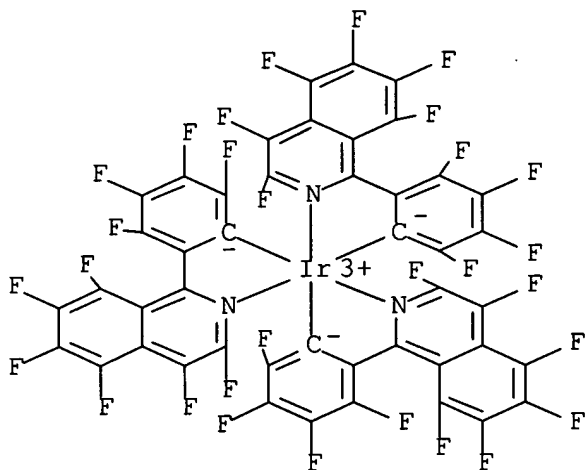


RN 435294-48-7 HCAPLUS

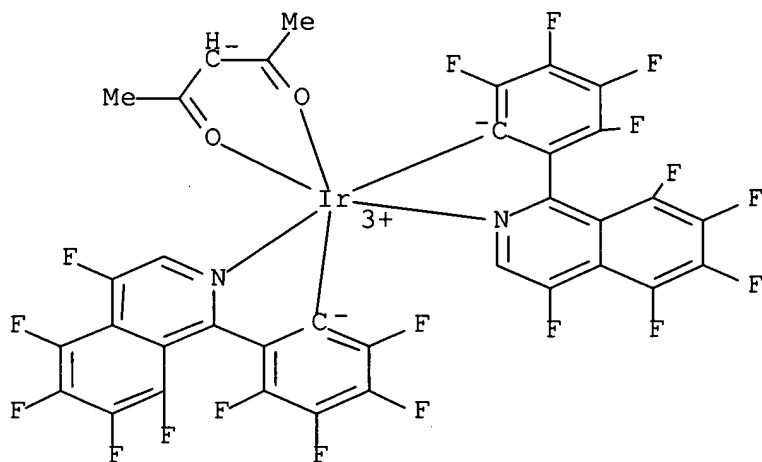
CN Iridium, tris[3,5-difluoro-2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.
.kappa.C]- (9CI) (CA INDEX NAME)



RN 435294-49-8 HCAPLUS
 CN Iridium, tris[2,3,4,5-tetrafluoro-6-(3,4,5,6,7,8-hexafluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

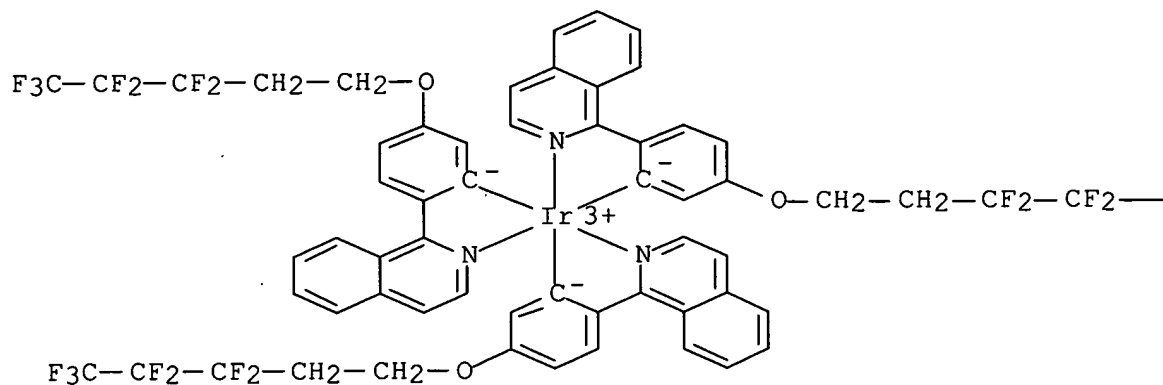


RN 435294-50-1 HCAPLUS
 CN Iridium, (2,4-pentanedionato-.kappa.O,.kappa.O')bis[3,4,5,6-tetrafluoro-2-(4,5,6,7,8-pentafluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI)
 (CA INDEX NAME)



RN 435294-51-2 HCAPLUS
 CN Iridium, tris[5-[(3,3,4,4,5,5,5-heptafluoropentyl)oxy]-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

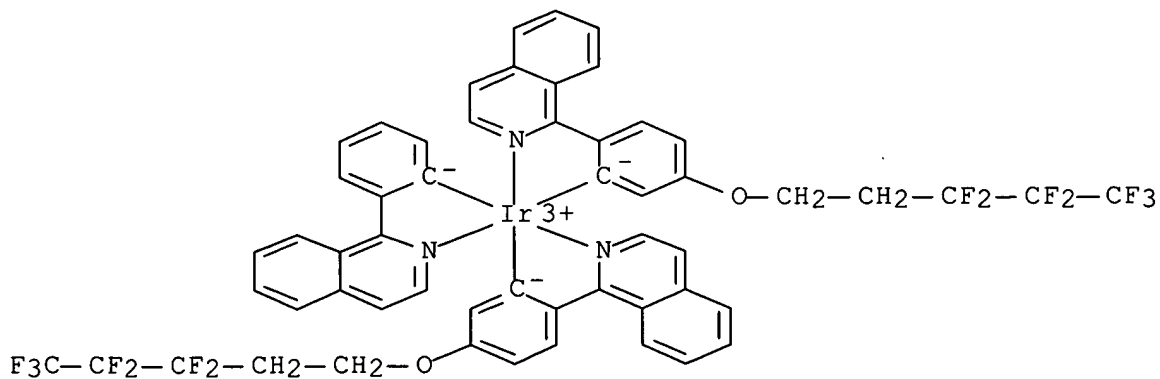
PAGE 1-A



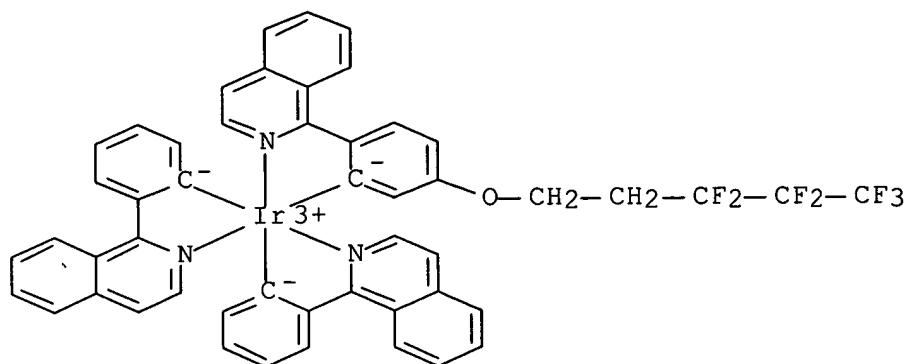
PAGE 1-B

—CF₃

RN 435294-52-3 HCAPLUS
 CN Iridium, bis[5-[(3,3,4,4,5,5,5-heptafluoropentyl)oxy]-2-(1-isoquinolinylnyl-.kappa.N)phenyl-.kappa.C][2-(1-isoquinolinylnyl-.kappa.N)phenyl-.kappa.C]-(9CI) (CA INDEX NAME)

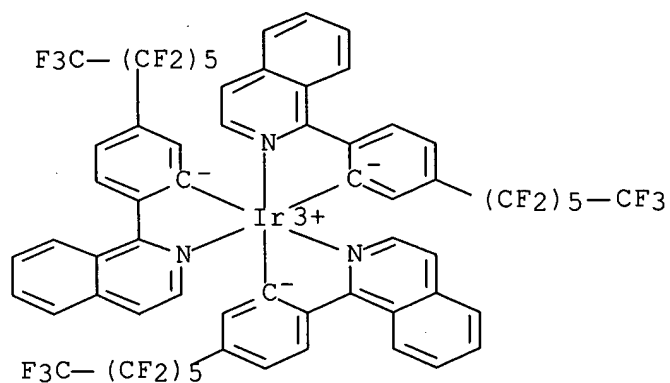


RN 435294-53-4 HCAPLUS
 CN Iridium, [5-[(3,3,4,4,5,5,5-heptafluoropentyl)oxy]-2-(1-isoquinolinylnyl-.kappa.N)phenyl-.kappa.C]bis[2-(1-isoquinolinylnyl-.kappa.N)phenyl-.kappa.C]-(9CI) (CA INDEX NAME)



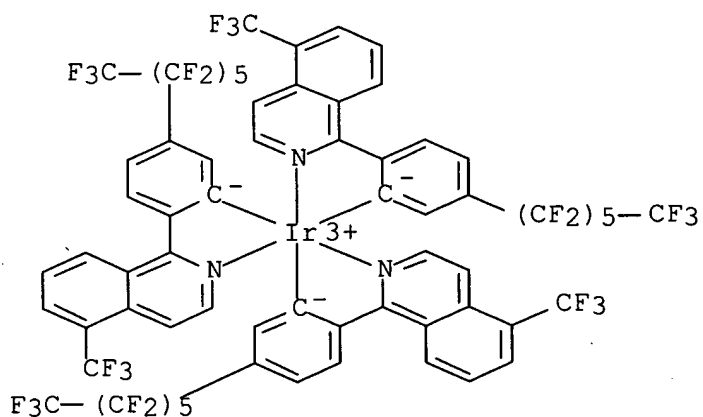
RN 435294-54-5 HCAPLUS

CN Iridium, tris[2-(1-isoquinolinyl-.kappa.N)-5-(tridecafluorohexyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



RN 435294-55-6 HCAPLUS

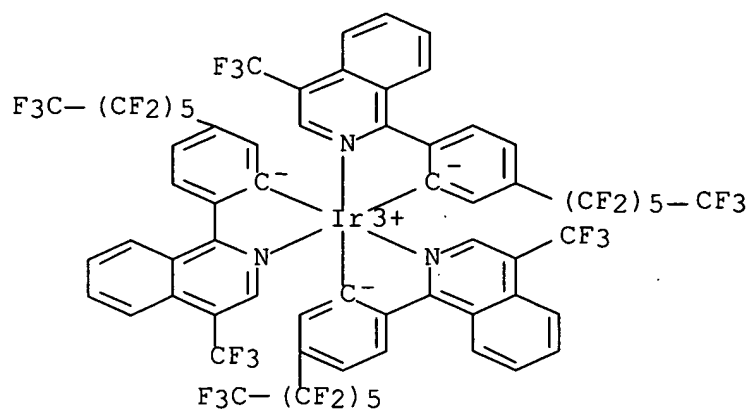
CN Iridium, tris[5-(tridecafluorohexyl)-2-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



RN 435294-56-7 HCAPLUS

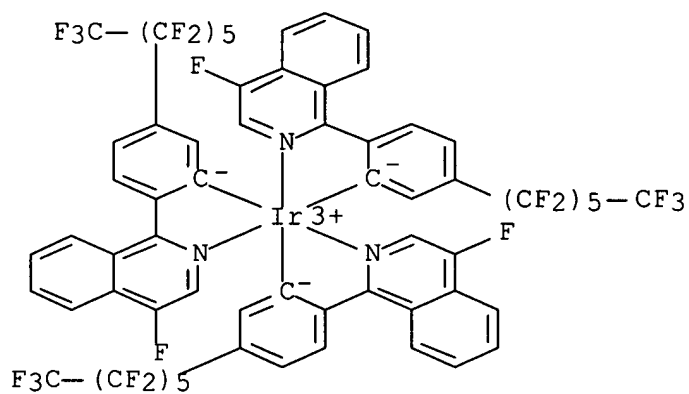
CN Iridium, tris[5-(tridecafluorohexyl)-2-[4-(trifluoromethyl)-1-

isoquinolinyl-.kappa.N]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



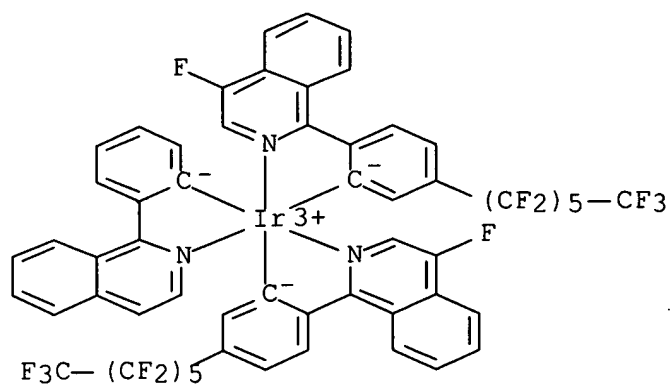
RN 435294-57-8 HCAPLUS

CN Iridium, tris[2-(4-fluoro-1-isoquinolinyl-.kappa.N)-5-(tridecafluorohexyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



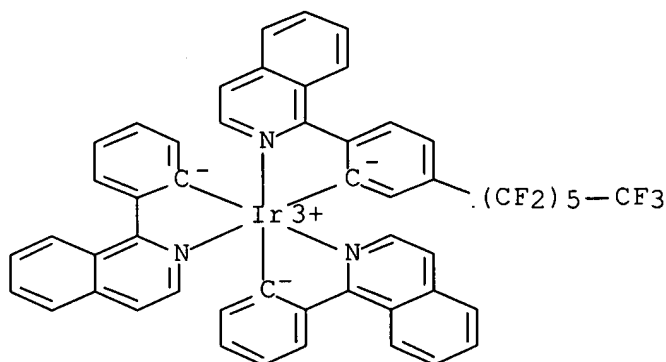
RN 435294-58-9 HCAPLUS

CN Iridium, bis[2-(4-fluoro-1-isoquinolinyl-.kappa.N)-5-(tridecafluorohexyl)phenyl-.kappa.C][2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



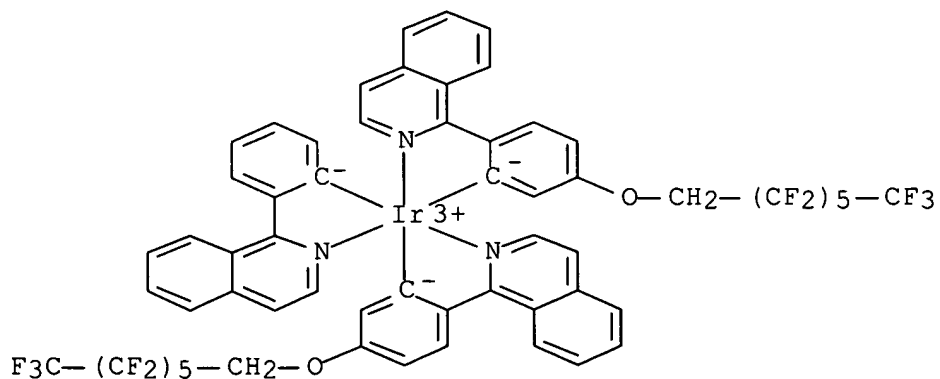
RN 435294-59-0 HCAPLUS

CN Iridium, bis[2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C][2-(1-isoquinolinyl-.kappa.N)-5-(tridecafluorohexyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



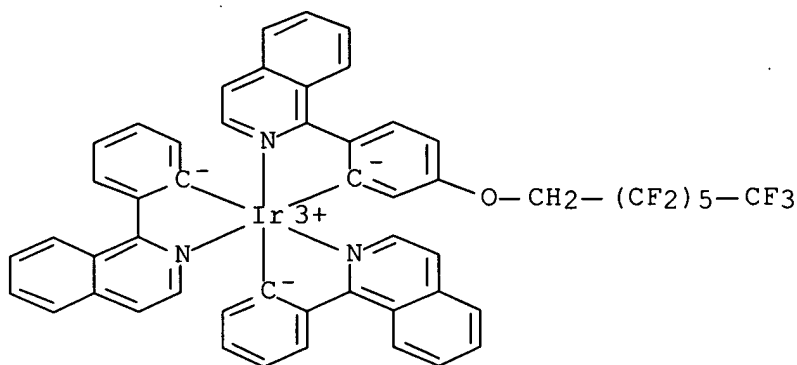
RN 435294-61-4 HCAPLUS

CN Iridium, [2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]bis[2-(1-isoquinolinyl-.kappa.N)-5-[(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)oxy]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



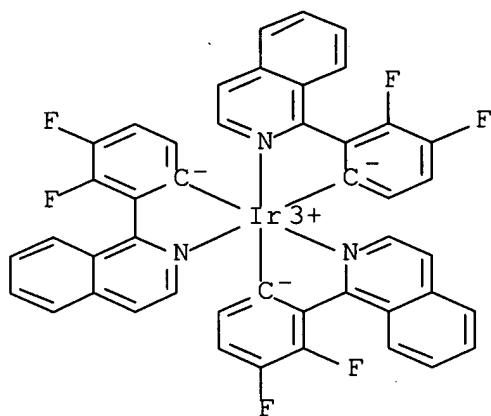
RN 435294-62-5 HCAPLUS

CN Iridium, bis[2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C][2-(1-isoquinolinyl-.kappa.N)-5-[(2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptyl)oxy]phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



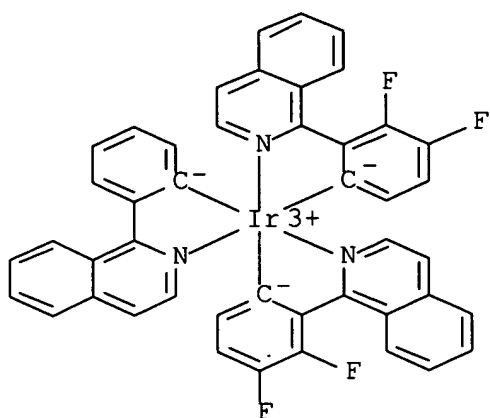
RN 435294-63-6 HCAPLUS

CN Iridium, tris[3,4-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



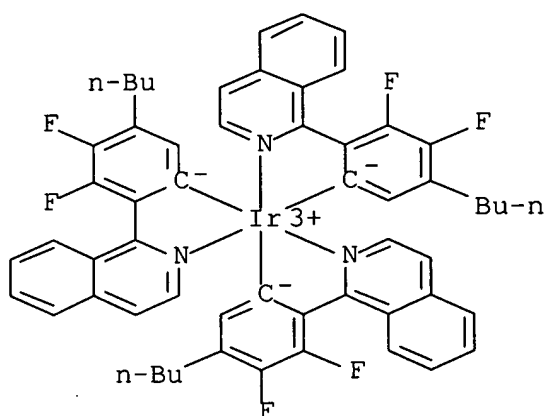
RN 435294-64-7 HCAPLUS

CN Iridium, bis[3,4-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C][2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)



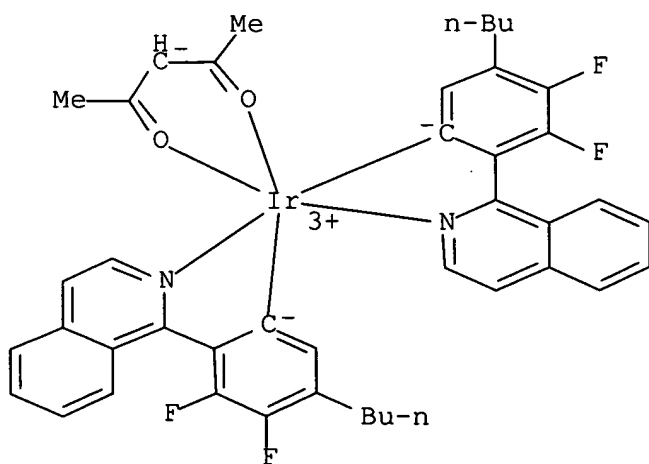
RN 435294-67-0 HCAPLUS

CN Iridium, tris[5-butyl-3,4-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

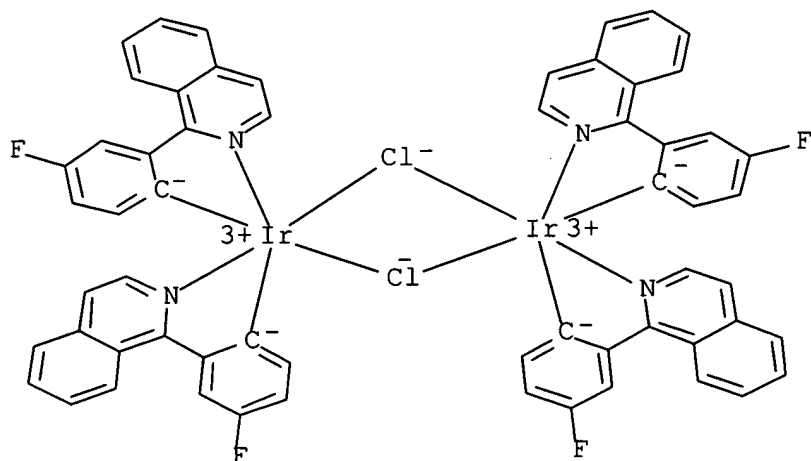


RN 435294-68-1 HCAPLUS

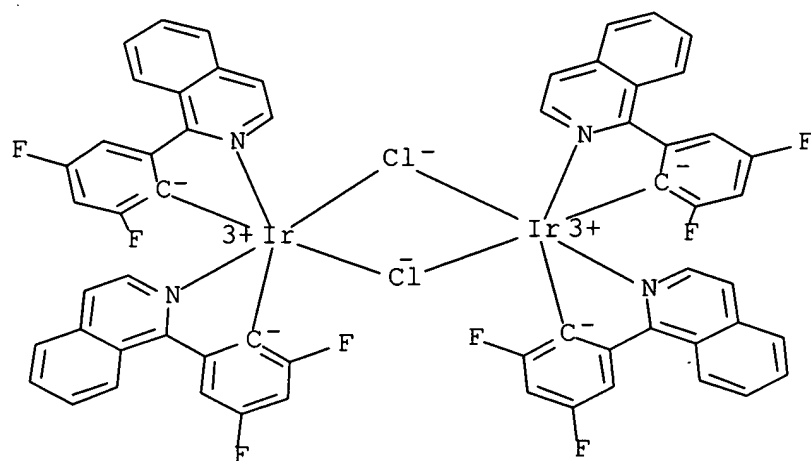
CN Iridium, bis[5-butyl-3,4-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C](2,4-pentanedionato-.kappa.O,.kappa.O')- (9CI) (CA INDEX NAME)



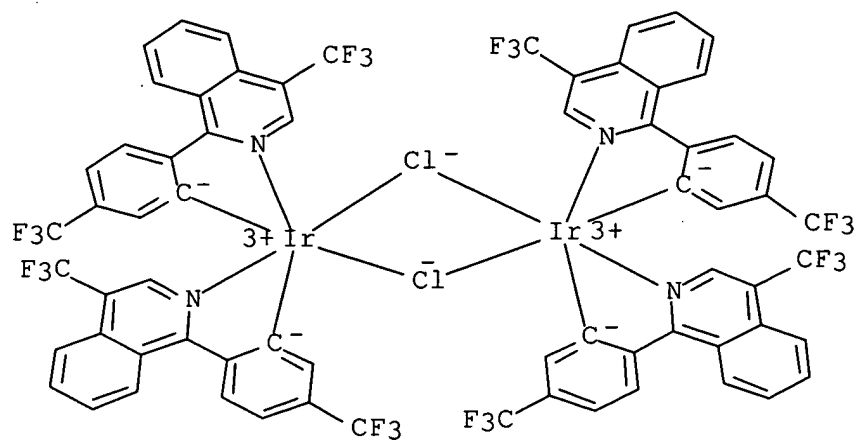
RN 435294-73-8 HCAPLUS
 CN Iridium, di-.mu.-chlorotetrakis[4-fluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)



RN 435294-74-9 HCAPLUS
 CN Iridium, di-.mu.-chlorotetrakis[4,6-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)

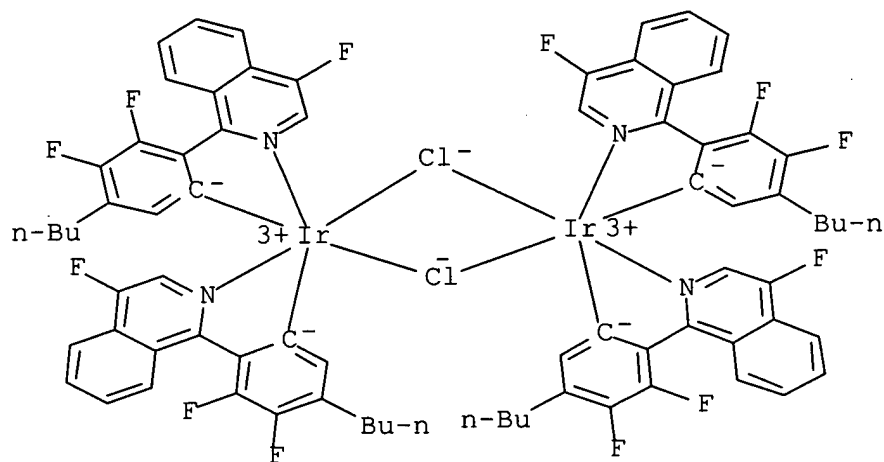


RN 435294-75-0 HCAPLUS
 CN Iridium, di-.mu.-chlorotetrakis[5-(trifluoromethyl)-2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)



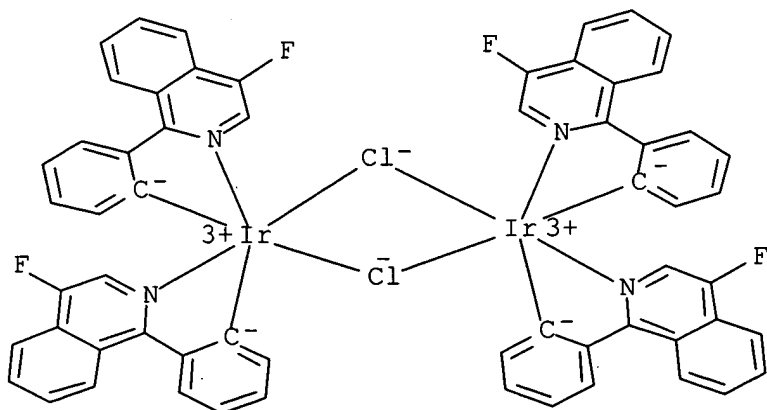
RN 435294-76-1 HCAPLUS

CN Iridium, tetrakis[5-butyl-3,4-difluoro-2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]di-.mu.-chlorodi- (9CI) (CA INDEX NAME)



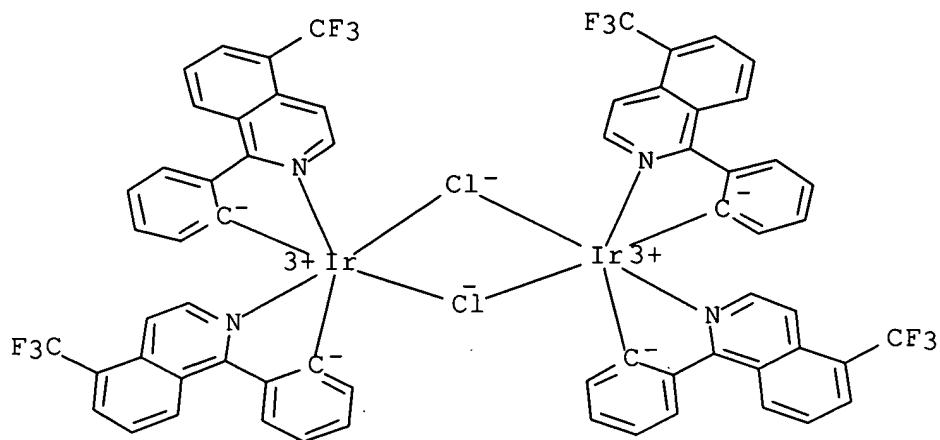
RN 435294-77-2 HCAPLUS

CN Iridium, di-.mu.-chlorotetrakis[2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)



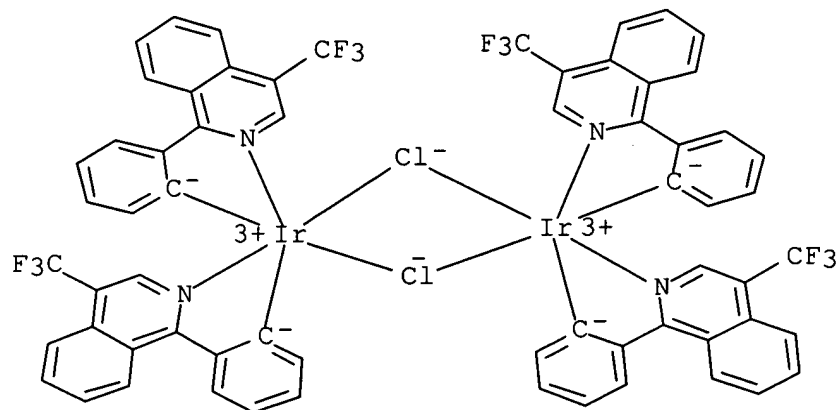
RN 435294-78-3 HCAPLUS

CN Iridium, di-.mu.-chlorotetrakis[2-[5-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)



RN 435294-79-4 HCAPLUS

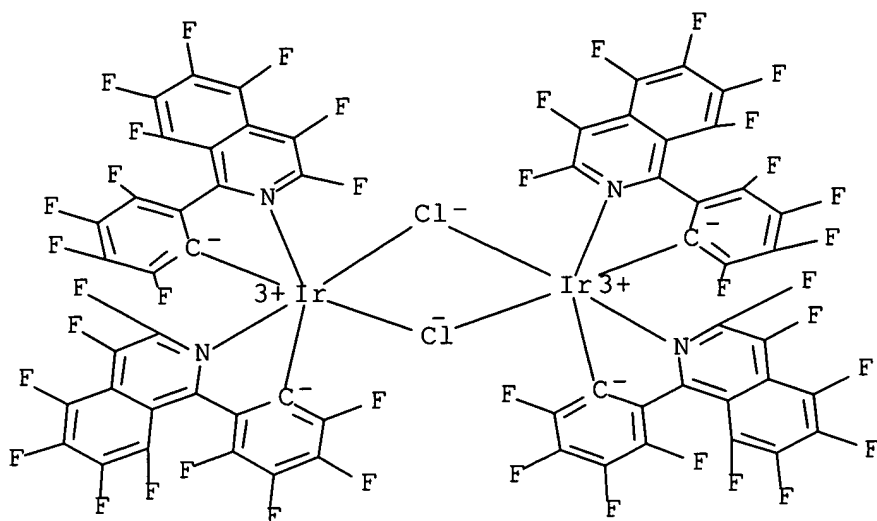
CN Iridium, di-.mu.-chlorotetrakis[2-[4-(trifluoromethyl)-1-isoquinolinyl-.kappa.N]phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)



RN 435294-80-7 HCAPLUS

CN Iridium, di-.mu.-chlorotetrakis[3,4,5,6-tetrafluoro-2-(3,4,5,6,7,8-hexafluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)

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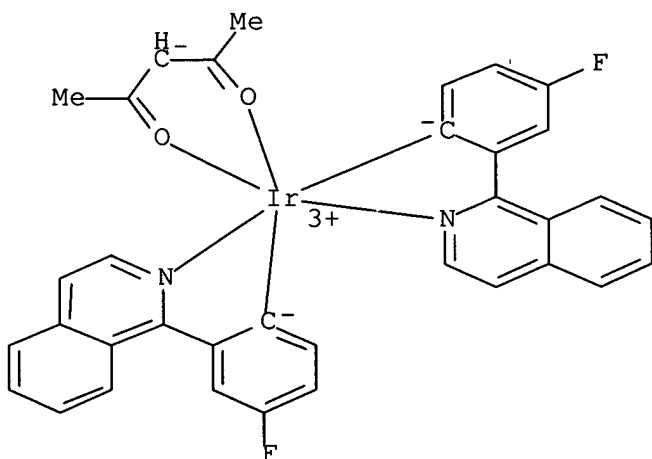
RE.CNT 4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 1 OF 1 HCAPLUS COPYRIGHT ACS on STN
 AN 2002:964786 DN 138:47038 ED Entered STN: 20 Dec 2002
 TI Electroluminescent iridium compounds with fluorinated phenylpyridines, phenylpyrimidines, and phenylquinolines and devices made with such compounds
 IN Grushin, Vladimir; Lecloux, Daniel D.; Petrov, Viacheslav. A.; Wang, Ying
 PA E. I. Du Pont de Nemours & Co., USA

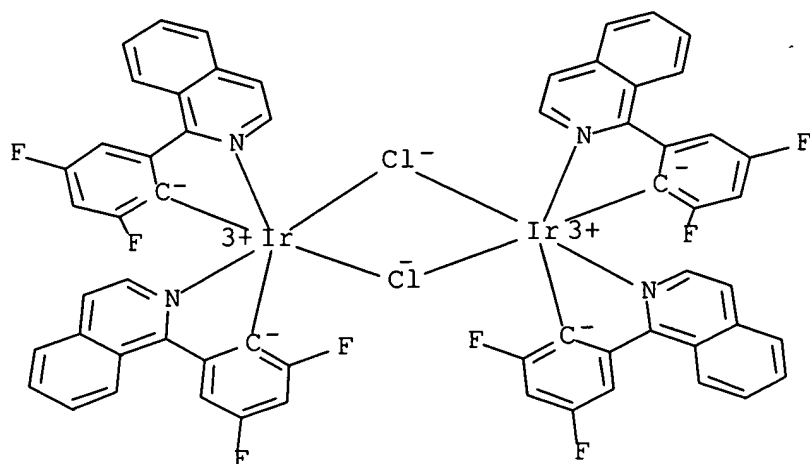
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002190250	A1	20021219	US 2001-27421	20011220
US 6670645	B2	20031230		
US 2002121638	A1	20020905	US 2001-879014	20010612
EP 1424382	A2	20040602	EP 2004-4541	20010627
EP 1431288	A2	20040623	EP 2004-4542	20010627
EP 1431289	A2	20040623	EP 2004-4543	20010627
CA 2455844	AA	20030731	CA 2001-2455844	20011226
WO 2003063555	A1	20030731	WO 2001-US49522	20011226
EP 1466506	A1	20041013	EP 2001-991428	20011226
US 2004089867	A1	20040513	US 2003-696349	20031029
US 2004106007	A1	20040603	US 2003-696095	20031029
US 2004108507	A1	20040610	US 2003-696003	20031029
US 2004188673	A1	20040930	US 2003-696060	20031029
US 2004191959	A1	20040930	US 2003-696401	20031029
US 2004094769	A1	20040520	US 2003-699411	20031030 <--
US 2004075096	A1	20040422	US 2003-720967	20031124
US 2004116696	A1	20040617	US 2003-720954	20031124
US 2005095457	A1	20050505	US 2004-983119	20041105
PRAI US 2000-215362P	P	20000630		
US 2000-224273P	P	20000810		
US 2001-879014	A2	20010612		
EP 2001-950576	A3	20010627		
US 2001-27421	A3	20011220		
WO 2001-US49522	W	20011226		
US 2003-366295	A3	20030213		
OS MARPAT 138:47038				
AB Ir(III) compds. with substituted 2-phenylpyridines, phenylpyrimidines, and phenylquinolines, and devices, esp. electroluminescent devices, that are made with the Ir(III) compds., are described. Precursor ligands for the devices are also described.				
IT 364067-15-2P 370878-74-3P 370878-76-5P 370878-77-6P 370878-78-7P 370878-79-8P 370878-80-1P 387859-66-7P 387859-72-5P 387859-73-6P 435294-05-6P 435294-37-4P 435294-74-9P				
(iridium compds. with fluorinated phenylpyridines and phenylpyrimidines and phenylquinolines and electroluminescent devices based on the compds. and their precursors)				
RN 435294-05-6 HCAPLUS				
CN Iridium, bis[4-fluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C] (2,4-pentanedionato-.kappa.O, .kappa.O')-				

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of
2

RN 435294-74-9 HCAPLUS

CN Iridium, di-.mu.-chlorotetrakis[4,6-difluoro-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]di- (9CI) (CA INDEX NAME)



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of

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L36 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:978186 DN 138:63633

TI Organic electroluminescent device containing dispersion dopant in the emitting layer

IN Furugori, Manabu; Okada, Shinjiro; Tsuboyama, Akira; Takiguchi, Takao; Miura, Seishi; Moriyama, Takashi; Igawa, Satoshi; Kamatani, Jun;

PA Canon Kabushiki Kaisha, Japan

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002104080	A1	20021227	WO 2002-JP5891	20020613
JP 2003068465	A2	20030307	JP 2002-143441	20020517
JP 2003068466	A2	20030307	JP 2002-143442	20020517
JP 2003068461	A2	20030307	JP 2002-143443	20020517
EP 1399002	A1	20040317	EP 2002-738680	20020613
US 2003141809	A1	20030731	US 2002-207843	20020731
US 6838818	B2	20050104		
PRAI JP 2001-181416	A	20010615		
JP 2002-143441	A	20020517		
JP 2002-143442	A	20020517		
JP 2002-143443	A	20020517		
WO 2002-JP5891	W	20020613		

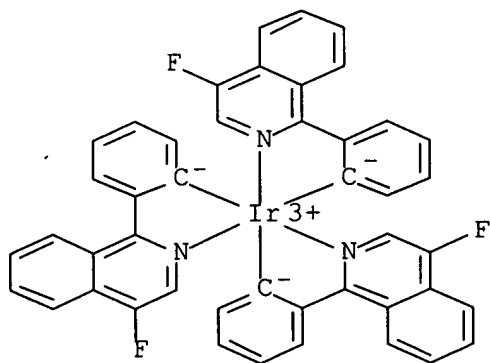
AB The invention refers to an org. electroluminescent device comprising an emitting material and a dopant for improving dispersion in the emitting layer, wherein the dopant can be a combination of an emitting compd. and a non-emitting compd., or can be a current promoting material. When the dopant contains an emitting compd., the emission wavelength of the dopant is similar to that of the main emitting material. The emitting material and the dopant are placed in the evapn. boat together for improved dispersion of the emitting material, improved emission efficiency and long life.

IT 435294-06-7

(org. electroluminescent device contg. dispersion dopant in emitting layer)

RN 435294-06-7 HCAPLUS

CN Iridium, tris[2-(4-fluoro-1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]- (9CI)



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

9/4/01
JP priority

10/699,411

AN 2003:194567 HCAPLUS

DN 138:245321

TI Metal coordination compound and organic electroluminescent device using the compound

IN Tsuboyama, Akira; Okada, Shinjiro; Takiguchi, Takao; Igawa, Satoshi; Kamatani, Atsushi; Moriyama, Takashi; Miura, Kiyoshi; Furugori, Manabu; Iwawaki, Hironobu

PA Canon Inc., Japan

3/12/03
JP
Pub

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003073387	A2	20030312	JP 2001-267234	20010904
PRAI	JP 2001-267234		20010904		

OS MARPAT 138:245321

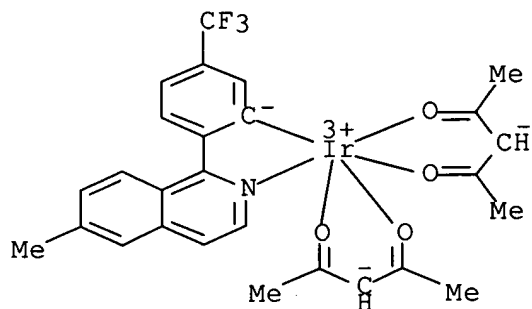
AB The compd. is a 6-coordinate complex involving only one bidentate ligand having metal-carbon linkage. The electroluminescent device has a light-emitting layer contg. the complex sandwiched between a pair of electrodes on a substrate wherein emission from the complex in transition from an excited state to the ground state is used. The electroluminescent device, showing high emission efficiency, is used in a display device having a means of driving of emission. The complex is manufd. by substitution of a complex I with another complex II, III, IV, or V followed by sepn. and purifn.

IT 501329-63-1P 501329-64-2P 501329-69-7P

(six-coordinate metal complex with one bidentate ligand for org. electroluminescent display device)

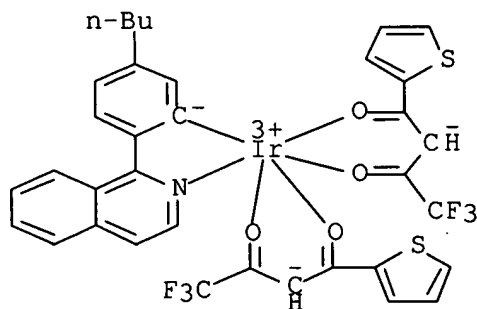
RN 501329-63-1 HCAPLUS

CN Iridium, [2-(6-methyl-1-isoquinolinyl-.kappa.N)-5-(trifluoromethyl)phenyl-.kappa.C]bis(2,4-pentanedionato-.kappa.O,.kappa.O')-, (OC-6-31)-



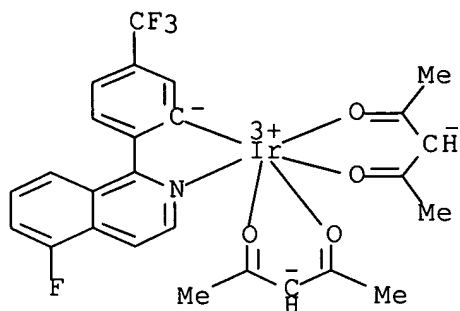
RN 501329-64-2 HCAPLUS

CN Iridium, [5-butyl-2-(1-isoquinolinyl-.kappa.N)phenyl-.kappa.C]bis[4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedionato-.kappa.O,.kappa.O']-

Sheet
1
of
2

RN 501329-69-7 HCAPLUS

CN Iridium, [2-(5-fluoro-1-isoquinoliny- κ .N)-5-(trifluoromethyl)phenyl- κ .C]bis(2,4-pentanedionato- κ .O, κ .O')-, (OC-6-31)- (9CI)
(CA INDEX NAME)



Sheet
2
of
2

L39 ANSWER 5 OF 25 HCAPLUS COPYRIGHT ACS on STN

AN 2003:300486 HCAPLUS

DN 138:328754

ED Entered STN: 18 Apr 2003

TI Phosphorescent compounds and devices comprising the same

IN Kwong, Raymond C.; Knowles, David B.; Thompson, Mark E.

PA The University of Southern California, USA; Universal Display Corporation

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003072964	A1	20030417	US 2001-981496	20011017
US 6835469	B2	20041228		
WO 2003033617	A1	20030424	WO 2002-US33040	20021017
JP 2005506361	T2	20050303	JP 2003-536348	20021017
US 2001-981496	A	20011017		
WO 2002-US33040	W	20021017		

PI US 2003072964 A1 20030417 US 2001-981496 20011017

US 6835469 B2 20041228

WO 2003033617 A1 20030424 WO 2002-US33040 20021017

JP 2005506361 T2 20050303 JP 2003-536348 20021017

PRAI US 2001-981496 A 20011017

WO 2002-US33040 W 20021017

OS MARPAT 138:328754

AB Organometallic complexes comprising phenylquinolinato ligands are provided. Methods of controlling the positions of photoluminescence maxima in the complexes entailing the selection of appropriate substituents for the ligands are described. Org. light-emitting devices comprising these compds. are also described, as are displays incorporating the light-emitting devices.

IT 512182-79-5P 512182-89-7P 512182-91-1P

512182-93-3P 512182-95-5P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

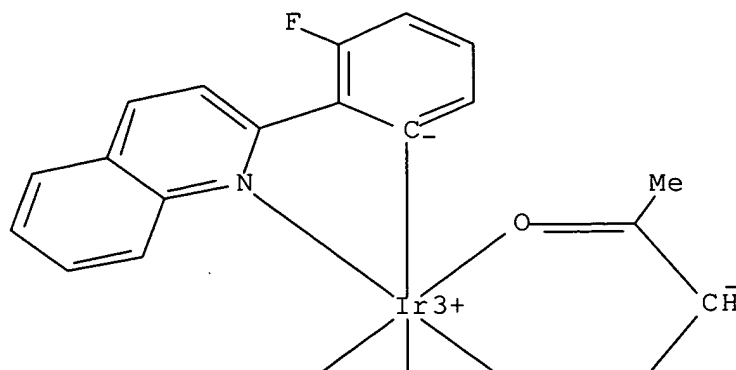
(phenylquinoline deriv. complexes as luminescent materials and electroluminescent devices using them)

RN 512182-79-5 HCAPLUS

CN Iridium, bis[3-fluoro-2-(2-quinolinyl-.kappa.N)phenyl-.kappa.C](2,4-pentanedionato-.kappa.O,.kappa.O')- (9CI) (CA INDEX NAME)

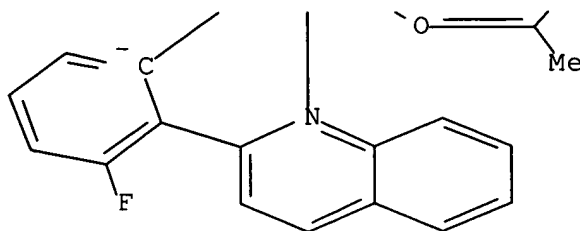
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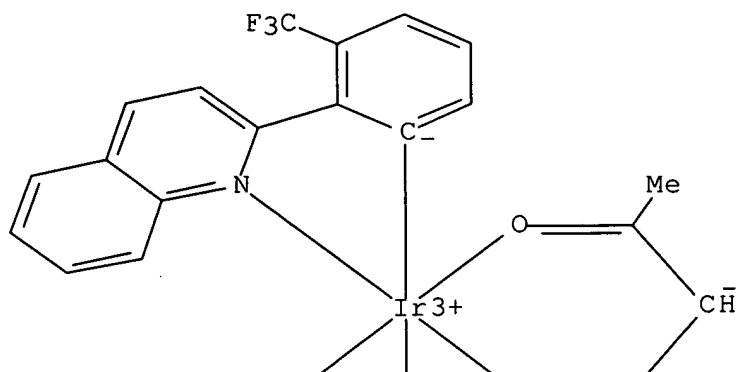
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PAGE 2-A

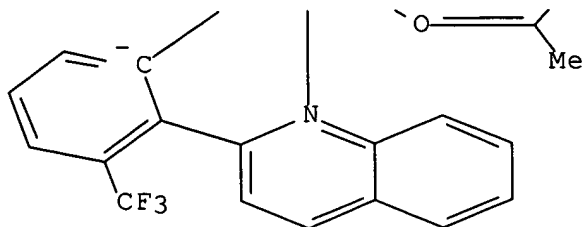


RN 512182-89-7 HCAPLUS
 CN Iridium, (2,4-pentanedionato- $\kappa^{\text{O}}, \kappa^{\text{O}'}$)bis[2-(2-quinolinyl- κ^{N})-3-(trifluoromethyl)phenyl- κ^{C}]- (9CI) (CA INDEX NAME)

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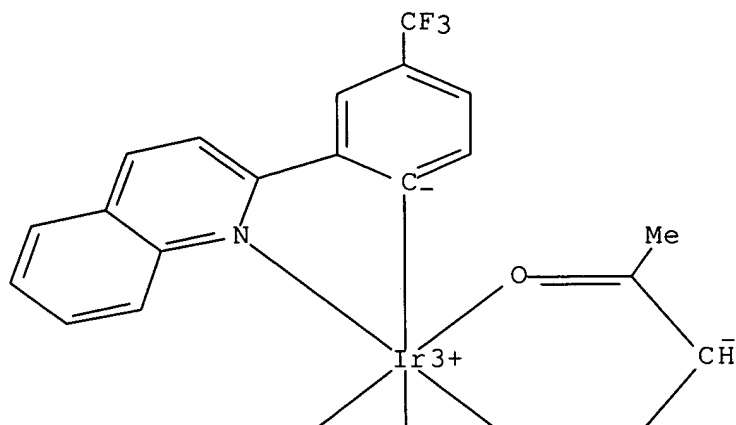
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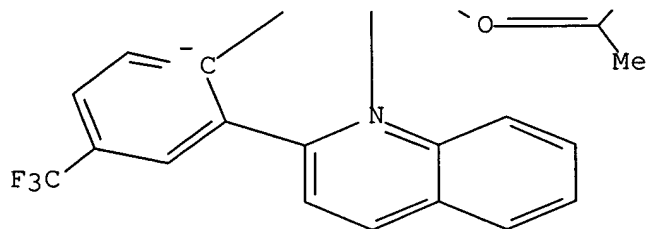
RN 512182-91-1 HCAPLUS

CN Iridium, (2,4-pentanedionato-.kappa.O,.kappa.O')bis[2-(2-quinolinyl-.kappa.N)-4-(trifluoromethyl)phenyl-.kappa.C]- (9CI) (CA INDEX NAME)

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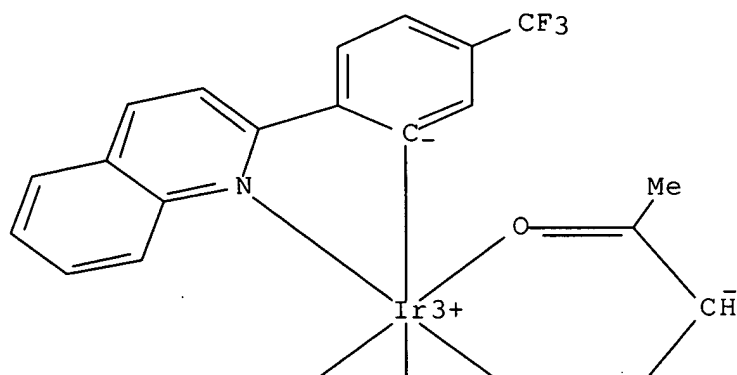
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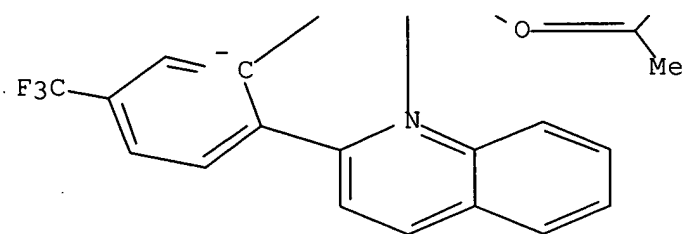
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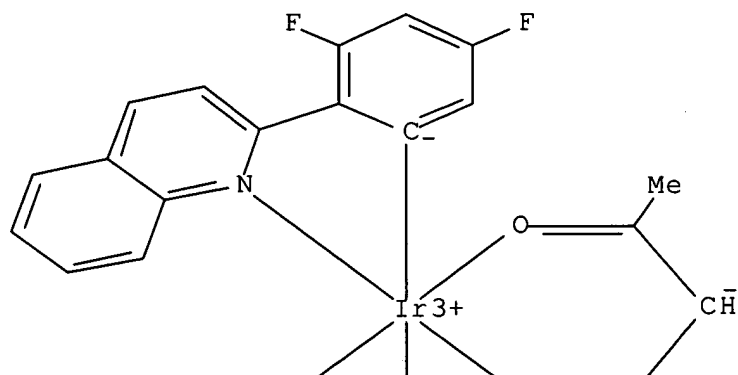


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RN 512182-95-5 HCAPLUS
 CN Iridium, bis[3,5-difluoro-2-(2-quinolinyl-.kappa.N)phenyl-.kappa.C] (2,4-pentanedionato-.kappa.O,.kappa.O')- (9CI) (CA INDEX NAME)

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